

Title (en)  
PROCESS AND DEVICE FOR MATERIAL MACHINING USING A LASER

Publication  
**EP 0312650 B1 19920108 (DE)**

Application  
**EP 87119372 A 19871230**

Priority  
DE 3733489 A 19871003

Abstract (en)  
[origin: EP0312650A1] In a process and a device for material machining using a laser, the laser light is directed onto the material via a laser optical system, and the light re-emitted, diffused or reflected by the material is passed via the laser optical system to a detector arrangement, to the outlet side of which an analysing circuit is connected for controlling the laser. The function variation with time of the light falling on the detector arrangement is analysed and used for controlling the laser and/or an optical switch arranged in the path of the output beam of the laser. <IMAGE>

IPC 1-7  
**A61B 17/36; B23K 26/00; B23K 26/04**

IPC 8 full level  
**A61B 17/22** (2006.01); **A61B 18/20** (2006.01); **B23K 26/00** (2006.01); **B23K 26/03** (2006.01); **B23K 26/04** (2006.01); **B23K 26/06** (2006.01); **G01N 21/39** (2006.01); **H01L 21/301** (2006.01); **H01S 3/10** (2006.01); **H01S 3/102** (2006.01); **H01S 3/106** (2006.01); **A61B 17/00** (2006.01)

CPC (source: EP US)  
**A61B 18/20** (2013.01 - EP US); **A61B 18/26** (2013.01 - EP); **B23K 26/03** (2013.01 - EP US); **B23K 26/032** (2013.01 - EP US); **B23K 26/0643** (2013.01 - EP US); **A61B 2017/00061** (2013.01 - EP US); **A61B 2017/00128** (2013.01 - EP); **A61B 2018/00577** (2013.01 - EP); **A61B 2018/00636** (2013.01 - EP US); **A61B 2018/00642** (2013.01 - EP); **A61B 2018/00666** (2013.01 - EP US); **A61B 2018/00678** (2013.01 - EP); **A61B 2018/00708** (2013.01 - EP); **A61B 2018/00904** (2013.01 - EP)

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